No.



200000119

HHEUNIHED SHAVES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

MICCOUS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE MAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE YEART TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT AD BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'92B56

In Vertinian Mercest, I have hereunto set my hand and caused the seal of the Month Unviety Protection Office to be affixed at the City of Washington, D.C. this eighth day of May, in the year of our Lord two thousand one.

alunk foot

Steling Commissioner Plant Variety Protection Office Sgricultural Marketing Service Menemon

Agriculture

REPRODUCE LOCALLY. Include form number and date on all	1	FORM APPROVED - OMB NO. 0581-0055				
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION	1974 (5 U.S.C. 552a).	The following statements are made in accordance with the Privacy Act of				
APPLICATION FOR PLANT VARIETY PROTECTIO (Instructions and information collection burden statem	certificate is to be issued (7 U.S.C	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. EXPERIMENTAL NUMBER	3. VARIETY NAME			
Pioneer Hi-Bred International, Inc.			92B56			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and	Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY			
2000 1777 72 11 1		515-270-3582	PVPO NUMBER			
7300 NW 62nd Ave						
P.O. Box 1004 Johnston, Iowa 50131-1004		6. FAX (include area code)	PATE COMPANY OF THE PARTY OF TH			
Joiniston, 10wa J0351-1004		515-253-2288	1 1/10/00			
7. GENUS AND SPECIES NAME	8. FAMILY NAME (B	otanical)	FILING AND EXAMINATION FEE:			
Glycine max L.	Legumia	nosae	F 3 2450			
9. CROP KIND NAME (Common name)	1		S DATE			
Soybean			R \/\C\/O\/			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGAN	IIZATION (corporation, partne	rship, association, etc.) (Common name)	E 2 2 0 0			
Corporation 11. IF INCORPORATED, GIVE STATE OF INCORPORATION	·····	12. DATE OF INCORPORATION				
·			D DATE			
Iowa		May 6, 1926				
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	SERVE IN THIS APPLICAT	ION AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)			
John Grace	Jean Brom	` '''	515-270-3582			
7300 NW 62nd Ave.	7100 NW (15. FAX (include area code)			
P.O. Box 1004 Johnston, Iowa 50131-1004	P.O. Box 1	000 owa 50131-1000	515-253-2288			
Johnston, 10wa 30131-1004	Johnston, 1	0wa 30131-1000	313-233-2200			
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Fo.	llow instructions on revers	re)				
a. 😾 Exhibit A. Origin and Breeding History of the Variety						
 b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety 						
d. 🗹 Exhibit D. Additional Description of the Variety						
e. Exhibit E. Statement of the Basis of the Applicant's Ownershi	p					
f. Voucher Sample (2,600 viable untreated seeds or, for tuber pr		tion that tissue culture will be deposited and n	naintained in a public repository)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLE		•	on 83(a) of the Plant Variety Protection Act)?			
YES If "yes," answer items 18 and 19 below)	₩ NO 7f	'no," go to item (20)				
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT GENERATIONS?	TED AS TO NUMBER OF		OF PRODUCTION BEYOND BREEDER SEED?			
YES NO		FOUNDATION REGISTE	ERED CERTIFIED			
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN (If "yes," give names of countries and dates)	I RELEASED, USED, OFFE ✓ NO	RED FOR SALE, OR MARKETED IN THE U.S. O	R OTHER COUNTRIES?			
21. The applicant(s) declare that a viable sample of basic seed of the variet						
applicable, or for a tuber propagated variety a tissue culture will be dep The undersioned applicant(s) is/are) the owner(s) of this sexually repro Section 41, and is entitled to protection under the provisions of Section	duced or tuber propagated	ੋਂ ਤੇ plant variety. and believe(s) that the variety is				
Applicant(s) is(are) informed that false representation herein can jeopa	rdize protection and result	in penalties.				
SIGNATURE OF APPLICANT (Oxine)(s))	SIG	NATURE OF APPLICANT (Owner(s))				
Name (Blease print or type)	Mai	me (Please print or type)				
D. John Grace III		IIIC ti teace britis at Ahel				
CAPACITY OR TITLE DATE	CAF	ACITY OR TITLE	DATE			
Soybean Research Coordinator /Z	128/99					
SD-470 (04-95) (Previous editions are to be destroyed)		(See reverse for instructions and	d information collection burden statement)			

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 92B56

Variety 92B56 evolved from a 1995 cross of Midwest Oilseeds Experimental MO01718/{MO01718/{A1900/[A3237/[A3237/[A3237/(9362/(9392/(9392/40-3-2)))]]]}}

It is an F3-derived variety which was advanced to the F3 generation by the bulk method. The F4 progeny row of 92B56 was grown in the winter of 1996-97 in the Pioneer nursery near Buin, Chile SA. Subsequently, 92B56 has undergone 2 years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield potential, brown stem rot resistance and resistance to labeled rates of Roundup branded herbicides, variety 92B56 was assigned a commercial number.

The purification block was grown during 1998 and 21 sublines were bulked for increase. 50 acres of 92B56 (breeders seed) were grown during the winter of 1997-1998 in Chile SA. 1215 acres of parent seedstock (foundation seed equivalent) were grown in the summer of 1999 and 60,000 bushels were harvested.

Exhibit B. Statement of Distinctness

Soybean Variety 92B56

Variety 92B56 is most similar to Stine variety 2621. Both varieties have white flowers, light tawny pubescence and yellow seeds with black hila. However, 92B56 is resistant to labeled rates of Roundup branded herbicides whereas 2621 is susceptible.

Variety 92B56 is also similar to BK388A, DSR302, and Kottman. However, 92B56 is resistant to Roundup herbicide whereas BK388A, DSR302, and Kottman are susceptible.

Variety 92B56 is similar to AP2102RR, AG2101, AG2201, AG2301, CX285RR and S20B9 in maturity, pubescence and resistance to labeled rates of Roundup branded herbicides. However, 92B56 has white flowers whereas these other varieties have purple flowers.

Variety 92B56 is similar to AP2002RR, AP2802RR, AG2401, AG2501, AG2701, AG2702, AG2901, CX266RR, CX285RR, S22N2 and S28V8 in maturity and resistance to labeled rates of Roundup branded herbicides. However, 92B56 has white flowers whereas these other varieties have purple flowers.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SEED DIVISION - PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.							
NAME OF APPLICANT(S) TEMPORARY DESIGNATION							
Pioneer Hi-Bred International, Inc.	92B56						
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY						
7300 N.W. 62nd Ave., P.O. Box 1004	PVPO NUMBER 2 0 0 0 0 0 1 1 9						
Johnston, IA 50131-1004	200000119						
Choose the appropriate response which characterizes the variety in the features described below. Whe the number of boxes provided, place a zero on the first box when number is 9 or less (e.g., 0 9). St adequate soybean variety description. Other characters should be described when information is available.	arred characters 🛨 are considered fundamental to an						
1. SEED SHAPE:							
L W T							
	ral Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)						
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2) 4 = Elongat	re Flattened (L/T ratio > 1.2; T/W > 1.2)						
★ 2. SEED COAT COLOR: (Mature Seed)							
1 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other (S	pecify)						
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)							
2 1 = Dull ('Corsoy 79'; 'Braxton')							
★ 4. SEED SIZE: (Mature Seed)							
1 7 Grams per 100 seeds							
★ 5. HILUM COLOR: (Mature Seed)							
6 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)							
★ 6. COTYLEDON COLOR: (Mature Seed)							
1 1 = Yellow 2 = Green							
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:							
1 = Low 2 = High							
★ 8. SEED PROTEIN ELECTROPHORETIC BAND:							
1 = Type A (SP1 a) 2 = Type B (SP1 b)							
★ 9. HYPOCOTYL COLOR:							
1 = Green only ('Evans'; 'Davis') 2 = Green with bro	nze band below cotyledons ('Woodworth'; 'Tracy')						
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')	· · · · · · · · · · · · · · · · · · ·						
4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampto	n 266A')						
★ 10. LEAFLET SHAPE:	-						
3 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Spec	inty)						

	11. LEAFLET SIZE:	
	2 1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17')	
	3 = Large ('Crawford'; 'Tracy')	
	12. LEAF COLOR:	
	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
*	13. FLOWER COLOR:	
	1 = White 2 = Purple 3 = White with purple throat	
*	14. POD COLOR:	
	1 1 = Tan 2 = Brown 3 = Black	
*	15. PLANT PUBESCENCE COLOR:	
	2 1 = Gray 2 = Brown (Tawny) (Light tawny)	
	16. PLANT TYPES:	
	2 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
*	17. PLANT HABIT:	
	3 1= Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will')	
	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
	The state of the s	
★_	18. MATURITY GROUP:	
	$\begin{bmatrix} 5 \end{bmatrix}$ $1 = 000$ $2 = 00$ $3 = 0$ $4 = I$ $5 = II$ $6 = III$ $7 = IV$ $8 = V$	
_	9 = VI $10 = VII$ $11 = VIII$ $12 = IX$ $13 = X$	
/	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
	BACTERIAL DISEASES:	
	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
	Bacterial Blight (Pseudomonas glycinea)	
	★ 0 Wildfire (Pseudomonas tabaci)	
	FUNGAL DISEASES:	
	★ 1 Brown Spot (Septoria glycines)	
	Frogeye Leaf Spot (Cercospora sojina)	
	Race 1 0 Race 2 1 Race 3 0 Race 4 0 Race 5 Other (Specify)	
	Target Spot (Corynespora cassiicola)	
	O Downy Mildew (Peronospora trifoliorum var. manshurica)	
	Powdery Mildew (Microsphaera diffusa)	
	Brown Stem Rot (Cephalosporium gregatum)	
	Stem Canker (Diaporthe phaseolorum var. caulivora)	

200000119

			Variety Name	92B56
19.	DISEASES REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2	= Resistant) (Continued)	
	FUNGAL DISEASES: (Co	ontinued)		
*	Pod and Stem Blight	(Diaporthe phaseolorum var; sojae)		
	0 Purple Seed Stain	Cercospora kikuchii)		
	1 Rhizoctonia Root Rot	(Rhizoctonia solani)		
	Phytophthora Rot (F	Phytophthora megasperma var. sojae)		
*	1 Race 1 0 Rac	e 2 0 Race 3 0 Race 4 1	Race 5 0 Race 6	0 Race 7
	0 Race 8 0 Race	e 9 Other (Specify)		
	VIRAL DISEASES:			
	1 Bud Blight (Tobacco	Ringspot Virus)		
	1 Yellow Mosaic (Bean	Yellow Mosaic Virus)		
*	1 Cowpea Mosaic (Cow	pea Chlorotic Virus)		
	Pod Mottle (Bean Pod	l Mottle Virus)		
*	Seed Mottle (Soybean	ı Mosaic Virus)		
	NEMATODE DISEASES:			
	Soybean Cyst Nemato	de (Heterodera glycines)	•	
*	0 Race 1 0 Race	2 1 Race 3 0 Race 4	Other (Specify)	
	D Lance Nematode (Hop	violaimus Colombus)		
*	0 Southern Root Knot No	ematode (Meloidogyne incognita)		
*	0 Northern Root Knot N	ematode (Meloidogyne Hapla)		
	0 Peanut Root Knot Nen	natode <i>(Meloidogyne arenaria)</i>		
	0 Reniform Nematode (Rotylenchulus reniformis)		
	OTHER DISEASE NOT	ON FORM (Specify)		
20 .	PHYSIOLOGICAL RESPON	ISES: (ENTER 0 = Not tested, 1 = Suscep	tible, 2 = Resistant)	
*	0 Iron Chlorosis on Calc	areois Soil		
	Other (Specify)			
21. I	NSECT REACTION: (ENTE	ER 0 = Not tested, 1 = Susceptible, 2 = Re	sistant)	
	0 Mexican Bean Beetle ((Epilachna Varivestis)		
	0 Potato Leaf Hopper (Er	проasca fabae)		
	Other (Specify)			
22. I	NDICATE WHICH VARIETY	/ MOST CLOSELY RESEMBLES THAT SU	BMITTED.	
	CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
	Plant Shape	Stine 2621	Seed Coat Luster	92B52
	Leaf Shape	Stine 2621	Seed Size	92B22
	Leaf Color	92824	Seed shape	Stine 2621
	Leaf Size	Stine 2621	Seedling Pigmentation	Stine 2621

Variety Name 92B56

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE	NO.
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	G/100 SEED	SEEDS POD
Submitted 92B56	126	1.5	91	8	10	38	17	17	3
Name of Similar Variety 92B51	127	1.5	91	8	10	36	20	15	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop. Sci., 13: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1:1-19

Exhibit D. Additional Description of the Variety

Soybean Variety 92B56

In Exhibit C we have identified 92B56 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 92B56 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 92B56 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 92B56 is a mid Group II variety. If Group II varieties are divided into tenths, the relative maturity of 92B56 is 2.5.

REPRODUCE LOCALLY, Include form number and date on all reproductions.	FO	RM APPROVED - OMB NO. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in acc 1974 (5 U.S.C. 552a) and the Paperwork R			
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 until certificate is issued (7 U.S.C. 24	421). Information is held confidential		
1. Name Of Applicant(s)	2. Temporary Designation Or Experimental Number	3. Variety Name		
Pioneer Hi-Bred International, Inc.		92B56		
4. Address (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. Telephone (include area code)	6. Fax (include area code)		
7300 NW 62nd Ave	515-270-3582	515-253-2288		
P.O. Box 1004 Johnston, Iowa 50131-1004	7. PVPO Number 2 0 (00011911		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, Please explain.	✓ YES NO		
Is the applicant (individual or company) a U.S. national or U.S. based compa If no, give name of country	iny?	✓ YES □ NO		
10. Is the applicant the original owner? ✓ YES If	no, please answer one of the follow	ng:		
a. If original rights to variety were owned by individual(s),	, Is (are) the original owner(s) a U.S.	national(s)?		
YES NO If no, give name of country				
b. If original rights to variety were owned by a company(id		S. based company?		
11. Additional explanation on ownership (If needed, use reverse for extra sp	ace):			
PLEASE NOTE:				
Plant variety protection can be afforded only to owners (not licensees) who me	eet one of the following criteria:			
1. If the rights to the variety are owned by the original breeder, that person m national of a country which affords similar protection to nationals of the U.	ust be a U.S. national, national of a s.S. for the same genus and species.	JPOV member country, or		
2. If the rights to the variety are owned by the company which employed the nationals of a UPOV member country, or owned by nationals of a country of genus and species.	which affords similar protection to n	ationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the original	owner and the applicant must meet	one of the above criteria.		
The original breeder/owner may be the individual or company who directed fin	al breeding. See Section 41(a)(2) of	the Plant Variety Protection Act		

for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.